From the INTERNATIONAL SEARCHING AUTHORITY

To: MODIANO & ASSOCIATI Attn. Modiano, Guido Via Meravigli, 16 I-20123 Milano ITALY

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

	(PCT Rule 44.1)
	Date of mailing (day/month/year) 06/12/2004
Applicant's or agent's file reference	
38735/SM/ch	FOR FURTHER ACTION See paragraphs 1 and 4 below
nternational application No.	International filing date
PCT/EP2004/009973	(day/month/year) 07/09/2004
Applicant	
URETEK S.R.L.	

1. X The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

International Bureau of WIPO, 34 chemin des Colombettes Where? Directly to the 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

- The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
- With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
 - the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

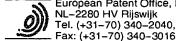
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Line Wagnersen

Authorized officer

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220			
38735/SM/ch	SM/ch ACTION as well as, where applicable, item 5 below					
International application No.	International filing date (day/mon	th/year)	(Earliest) Priority Date (day/month/year)			
PCT/EP2004/009973	07/09/2004		07/11/2003			
Applicant						
URETEK S.R.L.						
This International Search Report has been according to Article 18. A copy is being tra			nority and is transmitted to the applicant			
This International Search Report consists	of a total of 4 sh	eets.				
· -	a copy of each prior art document		report.			
Basis of the report a. With regard to the language, the	international search was carried ou	t on the bas	sis of the international application in the			
	ess otherwise indicated under this i					
The international this Authority (Rul		of a transla	ation of the international application furnished to			
b. With regard to any nucleo	otide and/or amino acid sequence	disclosed	in the international application, see Box No. I.			
2. Certain claims were four	nd unsearchable (See Box II).					
3. Unity of invention is lack	king (see Box III).		· ·			
4. With regard to the title , X the text is approved as su	hmitted by the applicant					
	hed by this Authority to read as folk	ows:				
5. With regard to the abstract,						
X the text is approved as sui	bmitted by the applicant.					
the text has been establish may, within one month fro	ned, according to Rule 38.2(b), by t m the date of mailing of this interna	his Authorit tional searc	y as it appears in Box No. IV. The applicant th report, submit comments to this Authority.			
6. With regards to the drawings ,						
a. the figure of the drawings to be p	ublished with the abstract is Figure	No. <u>10</u>				
X as suggested by t	he applicant.					
as selected by this	s Authority, because the applicant f	ailed to sug	gest a figure.			
	Authority, because this figure bett	er characte	rizes the invention.			
b none of the figures is to be	e published with the abstract.					

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/009973

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E02D3/12 E02D E02D29/02 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 E02D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 9 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. PATENT ABSTRACTS OF JAPAN X 1 - 5vol. 0180, no. 44 (M-1547), 24 January 1994 (1994-01-24) & JP 5 272126 A (OKABE CO LTD), 19 October 1993 (1993-10-19) 6-72 abstract EP 0 851 064 A (URETEK S R L) χ 1 July 1998 (1998-07-01) column 3, line 30 - column 3, line 45 EP 1 314 824 A (URETEK S R L) 1 χ 28 May 2003 (2003-05-28) page 3, line 22 - page 4, line 16 GB 2 135 721 A (GKN KELLER GMBH) 1 X 5 September 1984 (1984-09-05) claims 1-9; figure 1 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 06/12/2004 29 November 2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016

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Nilsson, L

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/009973

		PCI/EFZU	14/009973	
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
X	PATENT ABSTRACTS OF JAPAN vol. 0176, no. 67 (M-1524), 9 December 1993 (1993-12-09) & JP 5 222717 A (OKABE CO LTD), 31 August 1993 (1993-08-31) abstract; figures 3,4		1	
•	PATENT ABSTRACTS OF JAPAN vol. 0145, no. 19 (M-1048), 14 November 1990 (1990-11-14) & JP 2 217518 A (SHIMIZU CORP), 30 August 1990 (1990-08-30) abstract	·	1-72	
		÷		

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP2004/009973

Patent document cited in search report		Publication date	٠	Patent family member(s)		Publication date
JP 5272126	A	19-10-1993	NONE			
EP 0851064	A	01-07-1998	IT	1286418	B1	08-07-1998
			ΑT	181384	T	15-07-1999
			ΑT	250170	T ·	15-10-2003
			ΑU	731637	B2	05-04-2001
			ΑU	5751998	Α	29-06-1998
			CA	2273345	A1	11-06-1998
			DE	69700280		22-07-1999
			DE	69700280	T2	04-11-1999
			DE	69724994	D1	23-10-2003
			WO	9824982	A1	11-06-1998
			EP	0851064		01-07-1998
			EP	0941388	A1	15-09-1999
			ES	2132983	T3	16-08-1999
			GR	3030659	T3	29-10-1999
			HU	0000359	A2	28-06-2000
		•	JP		T	31-07-2001
			PL	186495		30-01-2004
			SI	851064		31-10-1999
			US	2002098042	A1	25-07-2002
EP 1314824	Α	28-05-2003	IT	MI20012496	A1	27-05-2003
			BR	0214435		03-11-2004
			CA	2467630		05-06-2003
			MO	03046296		05-06-2003
			EP	1314824	A1 ·	28-05-2003
GB 2135721	Α	05-09-1984	DE	3307619		11-10-1984
•			ΑT		В	28-03-1989
			AT	71484	Α	15-08-1988
JP 5222717	Α	31-08-1993	JP	2982989	B2	29-11-1999
JP 2217518	Α	30-08-1990	JP	2673153	B2	05-11-1997

PATENT COOPERATION TREATY

From	n the ERNATIONAL SEA	ARCHING AUTH	ORITY				
То:				PCT			
	see form	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
1	licant's or agent's file form PCT/ISA/2			FOR FURTHER ACTION See paragraph 2 below			
1	rnational application TÆP2004/00997		International filing date (07.09.2004	(day/month/year)	Priority date (day/month/year) 07.11.2003		
1	rnational Patent Cla 2D3/12, E02D29	, ,	both national classification	and IPC			
	licant ETEK S.R.L.						
1.	This opinion c	ontains indication	ons relating to the fol	lowing items:			
☐ Box No. I Basis of the opinion							
	☑ Box No. II	Priority					
☐ Box No. III Non-establishment of opinion with rega ☐ Box No. IV Lack of unity of invention			nent of opinion with reg	ard to novelty, inven	tive step and industrial applicability		
			f invention				
	⊠ Box No. V	Reasoned state applicability; ci	ement under Rule 43 <i>bi</i> . tations and explanation	s.1(a)(i) with regard t s supporting such st	o novelty, inventive step or industrial atement		
	□ Box No. VI. Certain documents cited						

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

□ Box No. VII Certain defects in the international application
 □ Box No. VIII Certain observations on the international application

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

<u>@</u>))

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Nilsson, L

Telephone No. +49 89 2399-2460



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009973

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	Box I	No. I	Basis of the opinion					
1.	With the la	regard t inguage	to the language , this opinion has been established on the basis of the international application in in which it was field, unless otherwise indicated under this item.					
	la	anguage	nion has been established on the basis of a translation from the original language into the following , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).					
2.	With neces	regard t ssary to	to any nucleotide and/or amino acid sequence disclosed in the international application and the claimed invention, this opinion has been established on the basis of:					
	a. typ	e of ma	iterial:					
		a sec	uence listing					
		table	(s) related to the sequence listing					
	b. format of material:							
		in wri	tten format					
		in co	mputer readable form					
	c. tim	e of filin	g/furnishing:					
		conta	nined in the international application as filed.					
		filed t	ogether with the international application in computer readable form.					
		furnis	hed subsequently to this Authority for the purposes of search.					
3.	h C	as beer opies is	on, in the case that more than one version or copy of a sequence listing and/or table relating thereto a filed or furnished, the required statements that the information in the subsequent or additional identical to that in the application as filed or does not go beyond the application as filed, as ate, were furnished.					
4.	Additi	onal co	mments:					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009973

								
	Box No. II	Priority						
1.	. 🖾 The following document has not been furnished:							
		copy of the earlier	application	n whose pi	riority has	been claimed (Rule 43 <i>bis</i> .1 and 66.7(a)).		
	translation of the earlier application whose priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(b)).							
						lidity of the priority claim. This opinion has e relevant date is the claimed priority date.		
2.	has be		ules 43 <i>bis.</i>	.1 and 64.1). Thus fo	een claimed due to the fact that the priority claim r the purposes of this opinion, the international nt date.		
3.	Additional of	observations, if nece	essary:					
	Box No. V industrial					with regard to novelty, inventive step or rting such statement		
1.	Statement							
	Novelty (N)	•	Yes:	Claims	6-72			
	, (,		No:	Claims	1-5			
	Inventive st	tep (IS)	Yes:	Claims				
			No:	Claims	6-72			
	Industrial a	pplicability (IA)	Yes:	Claims	1-72			
			No:	Claims				
_	0	I a sila a Mara						
2.	Citations at	nd explanations						

see separate sheet

Re Item V.

- 1) The following documents are referred to in this communication:
 - D1: PATENT ABSTRACTS OF JAPAN vol. 0180, no. 44 (M-1547), 24 January 1994 (1994-01-24) &; JP 5 272126 A (OKABE CO LTD), 19 October 1993 (1993-10-19)
 - D2: EP 0 851 064 A (URETEK S R L) 1 July 1998 (1998-07-01)
 - D3: EP 1 314 824 A (URETEK S R L) 28 May 2003 (2003-05-28)
 - D4: GB 2 135 721 A (GKN KELLER GMBH) 5 September 1984 (1984-09-05)
 - D5: PATENT ABSTRACTS OF JAPAN vol. 0176, no. 67 (M-1524), 9 December 1993 (1993-12-09) &; JP 5 222717 A (OKABE CO LTD), 31 August 1993 (1993-08-31)
 - D6: PATENT ABSTRACTS OF JAPAN vol. 0145, no. 19 (M-1048), 14 November 1990 (1990-11-14) &; JP 2 217518 A (SHIMIZU CORP), 30 August 1990 (1990-08-30)
- 2) The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

 Document D1 discloses (the references in parenthesis applying to this document):
 - A method for increasing the strength of a volume of soil, particularly for containing and supporting excavation faces, whereby it comprises at least one reinforcement step that comprises the following steps:
 - a step for preparing receptacles for a reinforcement structure, in which a plurality of mutually spaced reinforcement holes are formed, said holes being arranged substantially vertically or inclined with respect to vertical direction in the volume of soil to be strengthened;
 - a step for inserting the reinforcement structure, during which reinforcement elements are inserted in said reinforcement holes;
 - a step for locking the reinforcement structure, during which a synthetic locking substance that expands pa chemical reaction is injected into said reinforcement holes, said substance being adapted to bond said reinforcement elements with the surrounding soil. (see the abstract together with the figures)
- DEPENDENT CLAIMS 2-5
 Dependent claims 2-5 do not contain any features which, in combination with the

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/009973

features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

- 4) Inasmuch as the features of dependent claims 6-72 are not directly known from D1, they obviously concern only minor modifications thereto which come within the customary practice followed by a person skilled in the art and which cannot therefore be regarded as inventive (Article 33 (3) PCT). Consequently, dependent claims 6-72 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, involve an inventive step.
- 5) Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D6 is not mentioned in the description, nor are these documents identified therein.
- 6) The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).